



2023 AP® 3-D Art and Design

Sustained Investigation: Analytic Scoring Rubric and Score Rationale

Row B—Score 3

Analytic Scoring Rubric Row B: Practice, Experimentation, and Revision		
Writing Prompt 2: <i>Describe how your sustained investigation shows evidence of practice, experimentation, and revision guided by your question(s) or inquiry.</i>		
1	2	3
Visual evidence of practice, experimentation, OR revision; however, visual evidence does not relate to a sustained investigation.	Visual evidence of practice, experimentation, OR revision relates to the sustained investigation. AND Written evidence relates to the visual evidence of practice, experimentation, OR revision.	Visual evidence of practice, experimentation, AND revision demonstrates development of the sustained investigation. AND Written evidence describes how the sustained investigation shows evidence of practice, experimentation, OR revision.

Score Rationale

There is clear visual evidence of practice, experimentation, and revision of a sustained investigation about creating common products using wood. Practice and experimentation can be seen in the design of a variety of functional objects as well as a range of woodworking methods. Visual evidence includes experimentation with digital processes and conventional analog tools and techniques. Image 4 documents revision in the series of models photographed in image 4. The visual evidence shows different approaches to leg shapes—from zig-zags to straight edges to subtle curves. In addition, there is evidence of experimenting with how connections would be made and how many components were necessary. More revision is seen in image 9 related to their experiments with materials. The annotations in the photo-composites describe “needing smoother molds and finer sawdust,” the results are confirmed in image 11.

In writing prompt 2, the written evidence describes how the sustained investigation includes practice by beginning with making common wooden objects like bookshelves and tables. Next, the portfolio transitions to designing sunglasses (not traditionally made from wood,) requiring practice and experimentation to learn wood bending techniques. The materials and processes fields written evidence describes how the sustained investigation shows experimentation and revision. For example, the text accompanying image 7 states, “After many iterations, I perfected the living hinge to make a flexible box top that could roll up.” The term “many iterations” implies both experimentation and revision. The portfolio exhibits visual evidence of practice, experimentation, and revision. It demonstrates the development of a sustained investigation while employing the effective use of written evidence for further elaboration and description.



Image 4



Image 11

Written Evidence

Sustained Investigation

Identify the question(s) or inquiry that guided your sustained investigation.

Response:

I grew up around a dad who is an extremely talented and passionate woodworker. Some of my earliest memories involve helping him in his studio. I wanted to show through my own work how I am my father's daughter, but I am also my own person, and I can use the skills and interests my dad gave to me to create something very different. My investigation is centered around finding unique or unconventional ways to use wood.

Describe how your sustained investigation shows evidence of practice, experimentation, and revision guided by your question(s) or inquiry.

Response:

My investigation began by trying out unusual forms of common wooden objects. For instance, in Project 2, I designed a wooden bookcase that had an amorphous shape with winding shelves. Soon my exploration shifted to creating objects that would not conventionally be made out of wood. When my inquiry shifted more in this direction, I had to get creative with the techniques I used. For Project 6, I had to learn how to bend wood to make a pair of sunglasses. I then began combining my new skills, like in Project 15, where I used a living hinge and wooden chain mail to make a unique cheese board.



Image 1

Sustained Investigation

Height: 6

Width: 2

Depth: 2

Materials:

I used Adobe Illustrator to design the legs, then laser cut them out of wood, and assembled by hand.

Process(es):

My inspiration behind this candlestick was a tree trunk, with outstretched roots and textured bark.



Image 2

Sustained Investigation

Height: 6

Width: 8

Depth: 1

Materials:

I used Adobe Illustrator to design shelves, then laser cut them out of wood, and assembled by hand.

Process(es):

I added colorful books to show how this bookcase can be both functional and decorative.

Image 3

Sustained Investigation

Height: 4

Width: 5

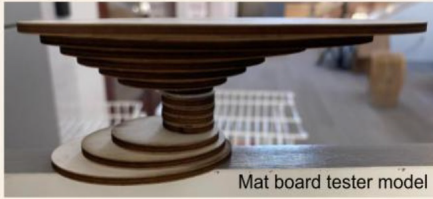
Depth: 3

Materials:

I used Adobe Illustrator to design the table, then laser cut it out of wood, and assembled by hand.

Process(es):

This table is meant to strike wonder as to how it can remain balanced even with its array of ovals.



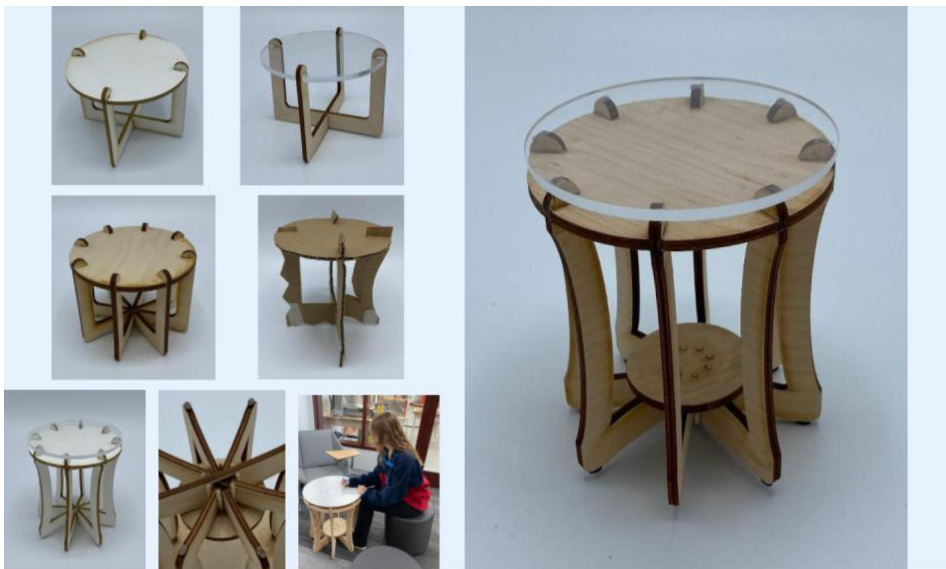


Image 4

Sustained Investigation

Height: 4

Width: 2

Depth: 2

Materials:

I designed the parts in Adobe Illustrator, then cut them out of wood and clear acrylic.

Process(es):

This table's curved legs pull the eye to the shelf in the center.

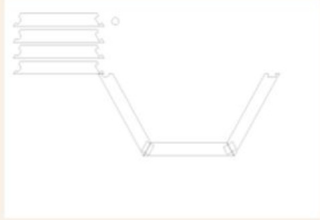


Image 5

Sustained Investigation

Height: 5

Width: 3

Depth: 3

Materials:

I designed the parts in Adobe Illustrator, then laser cut them out of wood and clear acrylic.

Process(es):

When lifted and rotated, this desk can become a standing desk with the illusion of a floating top.

Image 6

Sustained Investigation

Height: 2

Width: 6

Depth: 4

Materials:

I designed the parts in Adobe Illustrator, then laser cut them out of wood and clear acrylic.

Process(es):

To give the sunglasses their curved shape, I soaked the frames in water and clamped them into molds.



Image 7

Sustained Investigation

Height: 4

Width: 7

Depth: 4

Materials:

I designed the parts in Adobe Illustrator, then laser cut them out of wood and clear acrylic.

Process(es):

After many iterations, I perfected the living hinge to make a flexible box top that could roll up.



Image 8

Sustained Investigation

Height: 3

Width: 1

Depth: 1

Materials:

I laser cut templates of my side profile and then carved them into wood using the lathe.

Process(es):

I was inspired by the Rubin vase to create some with my own side profile with outward-looking faces.

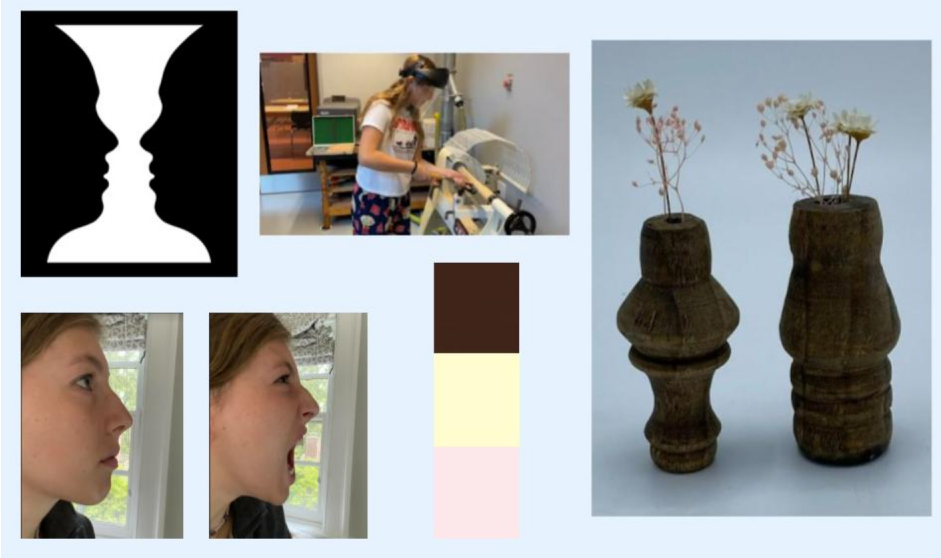


Image 9

Sustained Investigation

Height: NA

Width: NA

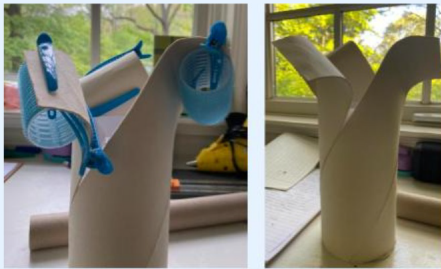
Depth: NA

Materials:

Laser cut maple plywood; sawdust, water, and wood glue paste; modeling wood pulp board.

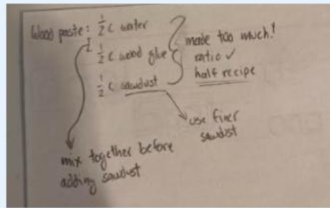
Process(es):

These were my first attempts at exploring new techniques for manipulating wood in unique ways.



First attempt at using pulp board. Issues: clips left perforations; use smooth molds next time.

First attempt at making chain mail. Issues: pattern didn't work; do more research before trying again.



First attempt at making wood paste. Issues: sawdust pieces were too big and made paste clumpy; use finer sawdust next time.

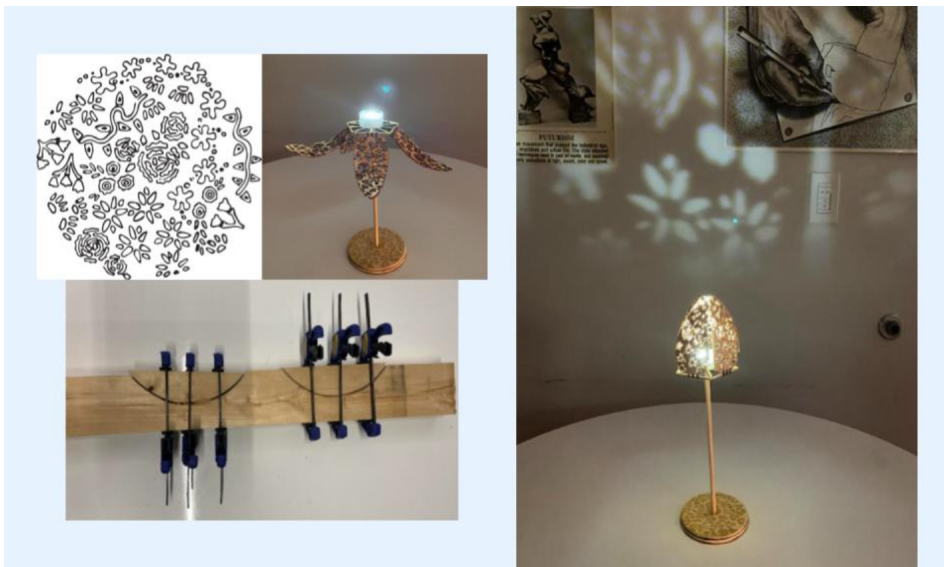


Image 10

Sustained Investigation

Height: 10

Width: 4

Depth: 4

Materials:

I designed the parts in Adobe Illustrator, then laser cut them out of wood. In the center is an LED.

Process(es):

I used the same technique as in project 6 to create curved flower petals that can open or close.



Image 11

Sustained Investigation

Height: 5

Width: 6

Depth: 4

Materials:

I mixed wood glue, water, and sawdust, and applied it to a mold made of wood, clay, and wire.

Process(es):

I wanted to emulate a retro shag couch by adding texture and bright color to a wooden sofa.

Image 12

Sustained Investigation

Height: 1

Width: 7

Depth: 0

Materials:

I designed the parts in Adobe Illustrator, then laser cut them out of wood and clear acrylic.

Process(es):

I was inspired by Dali's paintings and Cartier watches. The band is flexible due to a living hinge.



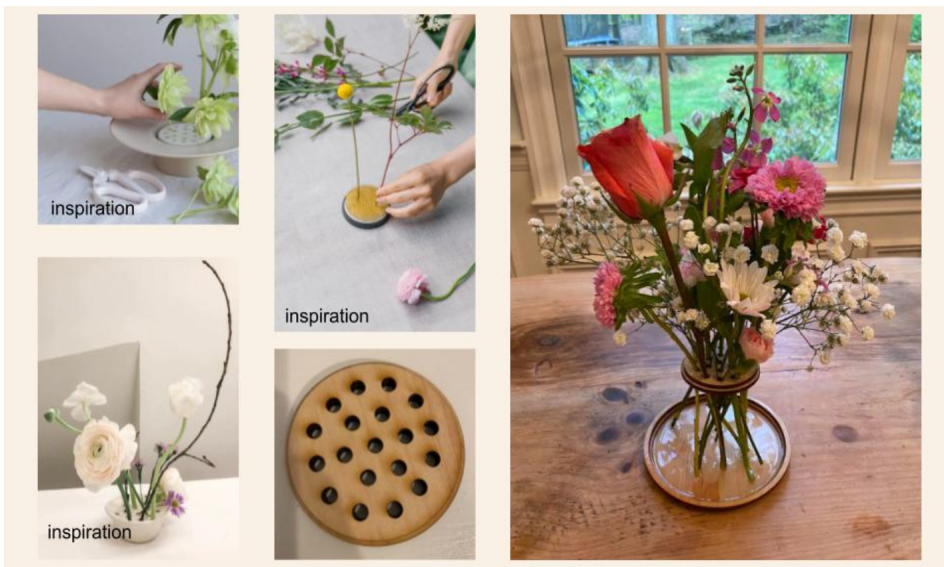


Image 13

Sustained Investigation

Height: 5

Width: 5

Depth: 5

Materials:

I designed the parts in Adobe Illustrator, laser cut them out of wood, then assembled by hand.

Process(es):

I created a flower frog that relies on a balanced bouquet to remain standing in the water dish.

Image 14

Sustained Investigation

Height: 8

Width: 4

Depth: 4

Materials:

I used the lathe, drill press, and Dremel, to transform a block of firewood.

Process(es):

I stained this barley-twisted chalice with a golden oak stain to emulate a real golden chalice.





Image 15

Sustained Investigation

Height: 3

Width: 8

Depth: 14

Materials:

I designed the parts in Adobe Illustrator, laser cut them out of wood, then assembled by hand.

Process(es):

I created a hammock of wooden chain mail and living hinge edges to add texture to this cheese board.